◇DATALOGIC

SENSORS

SR21

2mm high-resolution fork sensors for labeling and packaging

- 25 kHz high switching frequency

- IR or red/green light models

- Detection of labels (SR21-IR) or print register mark

  on transparent films (SR21-RG)

- 4 wire NPN and PNP output

APPLICATIONS

-Packaging and labeling machinery
-Print and apply systems

CE c(UL)us LISTED

SR21			
Slot width			2 mm
Slot depth			50 mm
Switching frequency			25 kHz
Light emission			IR LED
			red/green LED
Setting			push button
Power supply	Vdc		10...30 V
	Vac		
	Vac/dc		
Output	PNP		.
	NPN		.
	NPN/PNP		
	relay		
	other		
Connection	cable		
	connector		.
	pig-tail		
Approximate dimensions (mm)			20x90x26
Housing material			Zama
Mechanical protection			IP65

TECHNICAL DATA	
Power supply	10 ... 30 Vdc (limit values)
Ripple	2 Vpp max.
Consumption (output current excluded)	55 mA max.
Light emission	red LED 633 nm / green LED 570 nm
	IR LED 880 nm
Setting	AUTO-SET push-button
Operating mode	LIGHT/DARK configurable
Indicators	yellow OUTPUT LED
	green/red READY/ERROR LED
Output	PNP and NPN
Output current	100 mA max.
Saturation voltage	2 V max.
Response time	20 µs max.
Switching frequency	25 kHz max.
Connection	M8 4-pole connector
Dielectric strength	500 Vac, 1 min between electronics and housing
Insulating resistance	>20 MΩ, 500 Vdc between electronics and housing
Electrical protection	class 1
Mechanical protection	IP65
Ambient light rejection	according to EN 60947-5-2
Vibrations	0,5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)
Shock resistance	11 ms (30 G) 6 shock for every axis (EN60068-2-27)
Slot width	2 mm
Resolution	0,5 mm
Housing material	ZAMA
Lens material	glass
Operating temperature	-20 ... 60 °C
Storage temperature	-20 ... 70 °C
Weight	115 g

DIMENSIONS

LOCK SCREW   PUSH-BUTTON   LEDS

mm

Fork Sensors - SR21

◆DATALOGIC
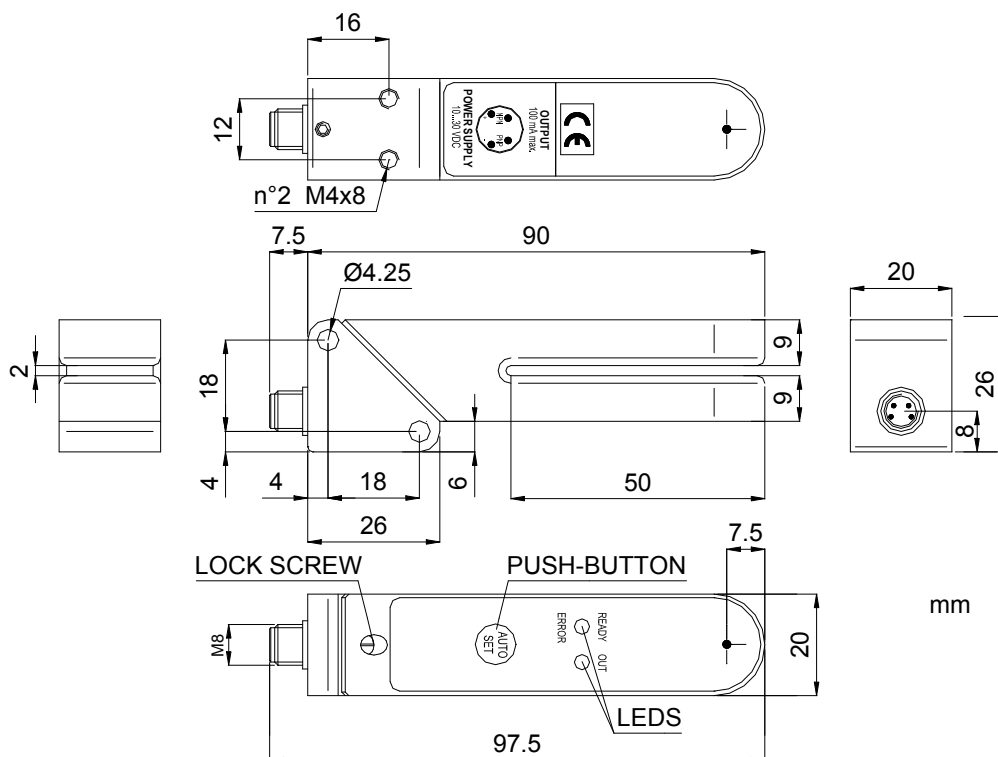
INDICATORS AND SETTINGS
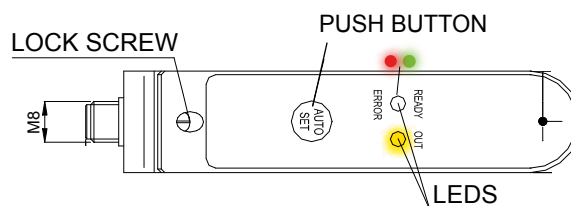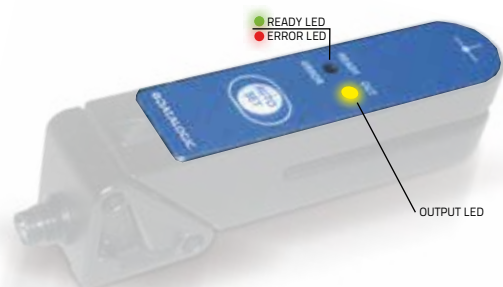
CONNECTIONS

M8 CONNECTOR

NPN OUTPUT (WHITE) — 2
PNP OUTPUT (BLACK) — 4
10...30 VDC + (BROWN) — 1
0V (BLUE) — 3
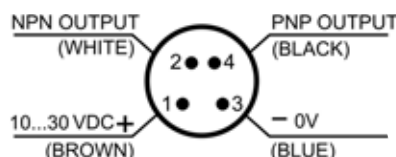
MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	EMISSION	CONNECTION	OUTPUT	MODEL	ORDER No.
Fork sensor	Infrared LED	M8 Connector	PNP/NPN	SR21-IR	953151070
	Red/Green LED			SR21-RG	953151080

CABLES

TYPE	DESCRIPTION	LENGTH	MODEL	ORDER No.
Axial M8 Connector	4-pole, grey, P.V.C.	3 m	CS-B1-02-G-03	95A251420
		5 m	CS-B1-02-G-05	95A251430
		7 m	CS-B1-02-G-07	95A251440
		10 m	CS-B1-02-G-10	95A251480
	4-pole, P.U.R.	2 m	CS-B1-02-R-02	95A251620
		5 m	CS-B1-02-R-05	95A251640
Radial M8 Connector	4-pole, grey, P.V.C.	3 m	CS-B2-02-G-03	95A251450
		5 m	CS-B2-02-G-05	95A251460
		7 m	CS-B2-02-G-07	95A251470
		10 m	CS-B2-02-G-10	95A251530
	4-pole, P.U.R.	2 m	CS-B2-02-R-02	95A251630
		5 m	CS-B2-02-R-05	95A251650